



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.buldingcodeonline.com

Glass Tech Engineering, Inc.
8321 N.W. 70th Street
Miami, FL 33166

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 2045 IG Aluminum Window Wall System

APPROVAL DOCUMENT: Drawing No. 99-11, dated 04/04/99 with revision B dated 12/14/06, titled "Series-2045 IG Alum. Window Wall System (N.I.)", Sheets 1 through 5, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA # 02-0328.02 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 07-0104.09
Expiration Date: April 11, 2012
Approval Date: April 26, 2007
Page 1

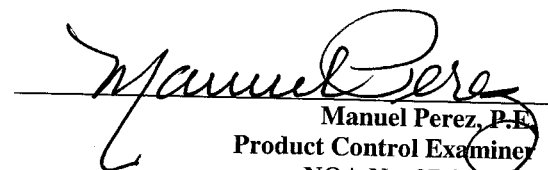
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W99-11**, Sheets 1 through 5 of 5, titled "Series-2045 IG Alum. Window Wall System (N.I.)", dated 04/04/99 with revision B dated 12/14/06, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per PA 202-94:
2) Uniform Load Static Air Pressure Test, per PA 202-94.
3) Water Resistance Test, per PA 202-94.
along with marked-up drawings and installation diagram of 1 specimen of a series 2045 aluminum window wall system with 1/4" tempered glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3365**, dated February 15, 2002, signed and sealed by Luis A. Figueredo, P.E.
(Submitted under previous approval 02-0328.02)
2. Test reports on 1) Air Infiltration Test, per PA 202-94:
2) Uniform Load Static Air Pressure Test, per PA 202-94.
3) Water Resistance Test, per PA 202-94.
of aluminum fixed window wall, prepared by Fenestration Testing Laboratory Inc., Test Report No. **FTL-1250** dated July 21, 1995, signed and sealed by Yamil G. Kuri, P.E. *(Submitted under previous approval 99-0204.05)*
3. Test report on: 1.) Air Infiltration Test, per PA 202-94
2.) Uniform Static Air Pressure Test, Loading per PA 202-94
3.) Water Resistance Test, per PA 202-94
4.) Cyclic Wind Load Test, per PA 203-94
5.) Small Missile Impact Test, per PA 201-94
along with installation diagram of a fixed window wall system w/steel reinforced mullion, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-1251** dated July 21, 1995, signed and sealed by Yamil G. Kuri, P.E.
(Submitted under previous approval 99-0204.05)
4. Test Report on: 1.) Small Missile Impact Test, per PA 201-94,
2.) Cyclic Wind Load Test, per PA 203-94
along with installation diagram of a fixed window wall system, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-1252** dated August 11, 1995, signed and sealed by Yamil G. Kuri, P.E.
(Submitted under previous approval 99-0204.05)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0104.09
Expiration Date: April 11, 2012
Approval Date: April 26, 2007

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C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated 11/29/06, signed and sealed by Humayoun Farooq, P.E.

Complies with ASTM E1300-02

2. Anchor Calculations and structural analysis, dated 7/27/02, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.
(Submitted under previous approval 02-0328.02)

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

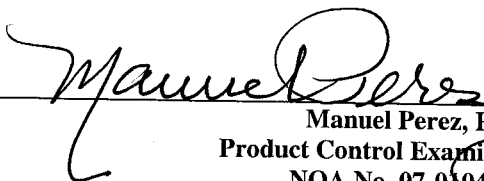
1. None.

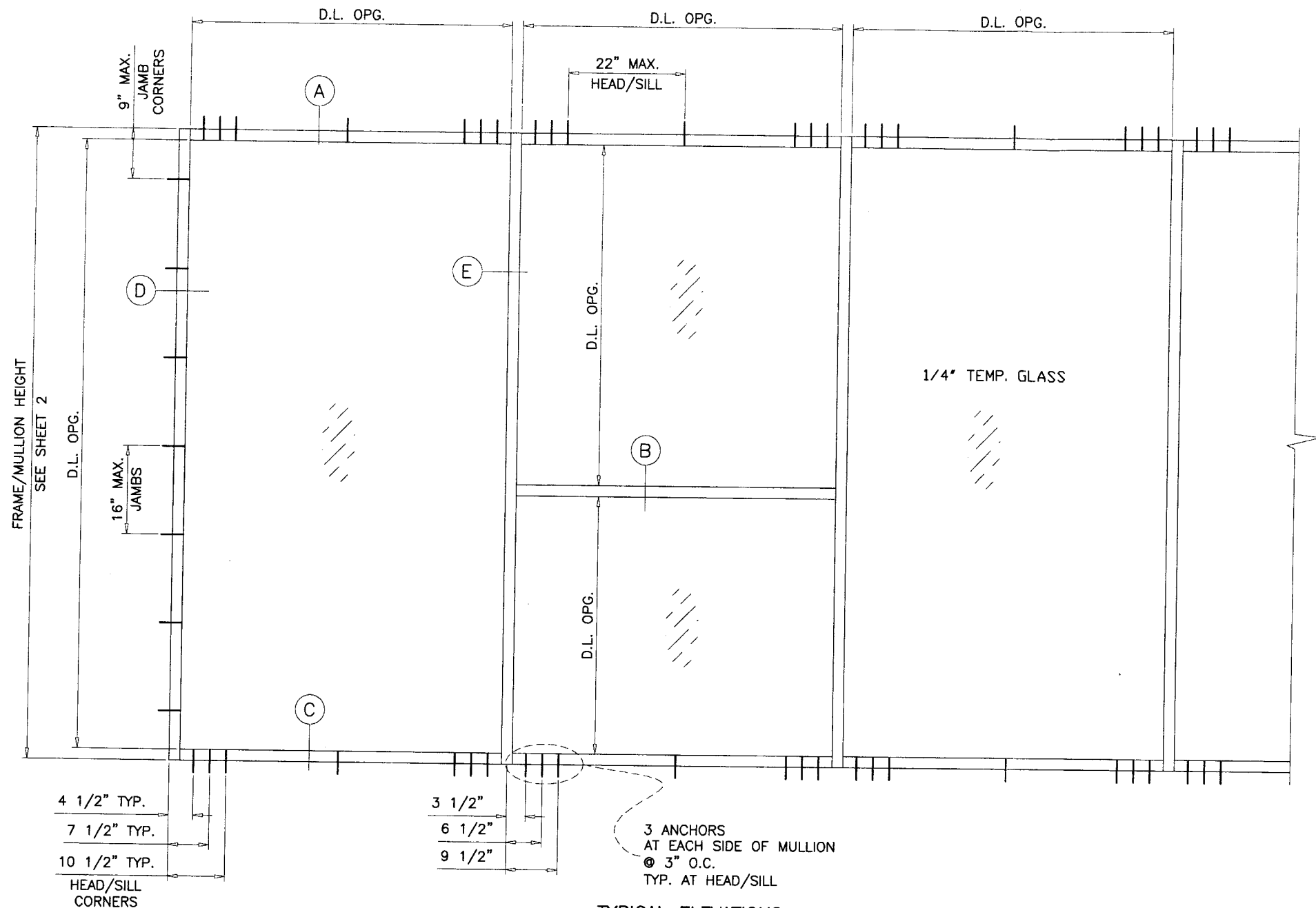
F. STATEMENTS

1. Statement letter of conformance, dated November 29, 2006, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated November 29, 2006, signed and sealed by Humayoun Farooq, P.E.
3. Laboratory compliance letter for Test Report no. HTL- _____, issued by Hurricane Test Laboratory, Inc., dated September 26, 1997, signed and sealed by Fredrick D. Shaffer, P.E.

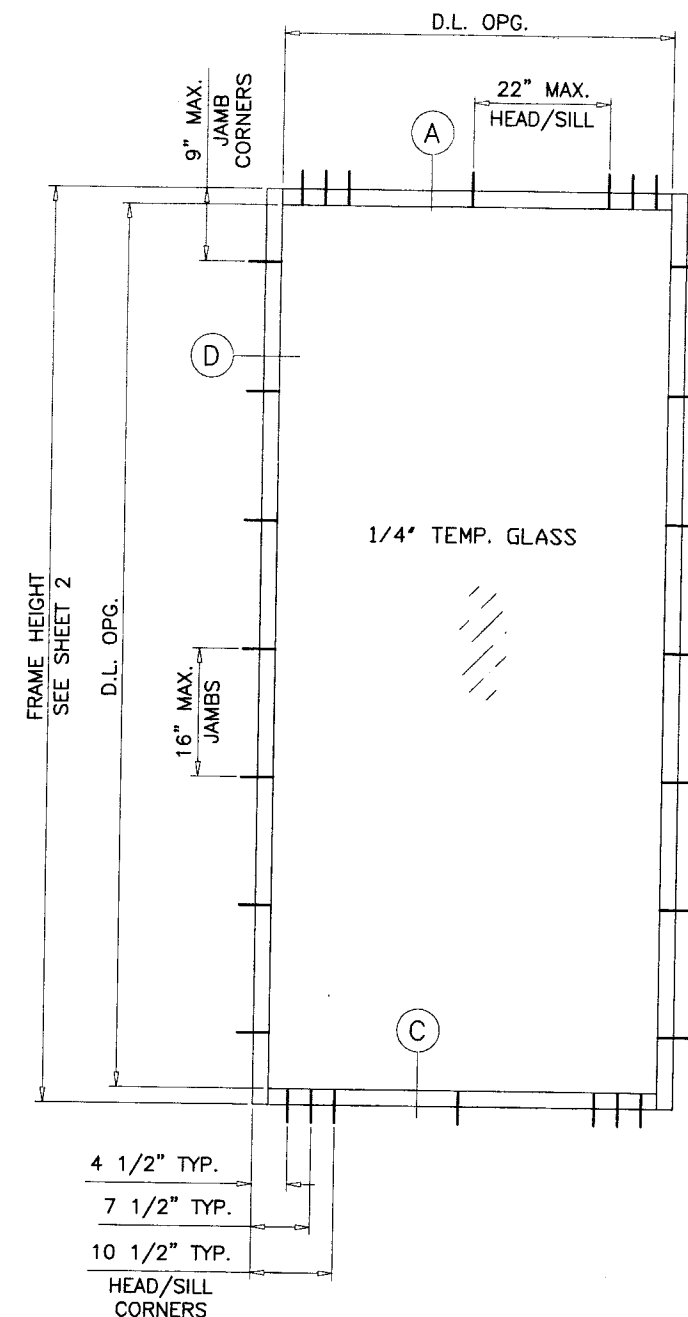
G. OTHER

1. Notice of Acceptance No. **02-0328.02**, issued to Glass Tech Engineering, Inc. for their Series 2045 IG Aluminum Window Wall System, approved on 02/06/03 and expiring on 04/21/07.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0104.09
Expiration Date: April 11, 2012
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TYPICAL ELEVATIONS



SERIES-2045 IG ALUMINUM WINDOW WALL SYSTEM

SEE CHART ON SHEET 2 FOR DESIGN LOAD CAPACITY.
CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

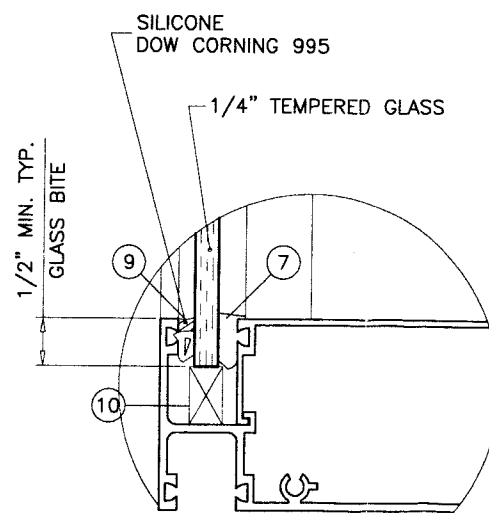
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BLDG. CODE SECTION 2003.8.4.



GLAZING DETAIL

STOREFRONT SYSTEM NOT RATED FOR IMPACT.

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.

INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

DEC 26 2006

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 07-0104.09
Expiration Date APR 11, 2012

By *Mahmud Jere*
Miami Dade Product Control
Division

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES-2045 IG ALUM. WINDOW WALL SYSTEM (N.I.)
GLASSTECH ENGINEERING INC.
8321 N.W. 70TH STREET
MIAMI, FL. 33166
TEL. (305) 594-4321 FAX. (305) 599-2730

no	date	by	description
A	07.05.02		GENERAL REVISION
B	12.14.06		UPDATED FOR 2004 FBC

revisions:
date: 04-04-99
scale: 1/2" = 1'-0"
dr. by: HAMID
chk. by:

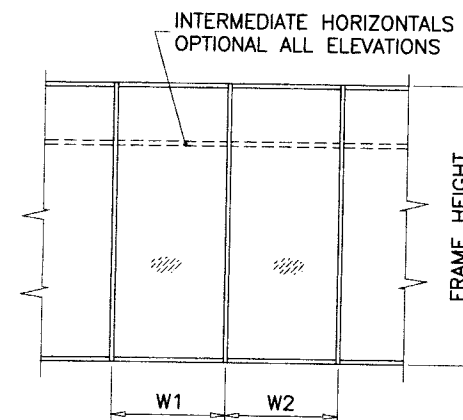
drawing no.
99-11

sheet 1 of 5

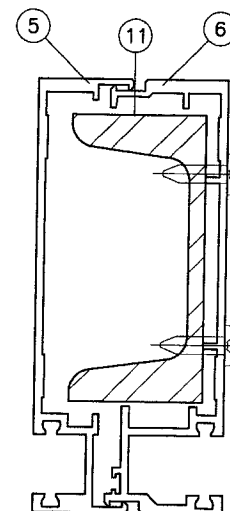
STORE\99-11GTE

DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		STANDARD MULLION		HEAVY MULLION	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36"	72"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	115.9	100.0	115.9
60"		100.0	104.3	100.0	104.3
66"		94.8	94.8	94.8	94.8
72"		86.9	86.9	86.9	86.9
36"	78"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	120.3	100.0	120.3
54"		100.0	106.9	100.0	106.9
60"		96.2	96.2	96.2	96.2
66"		87.5	87.5	87.5	87.5
72"		80.2	80.2	80.2	80.2
36"	84"	100.0	130.0	100.0	130.0
42"		100.0	127.7	100.0	127.7
48"		100.0	111.7	100.0	111.7
54"		99.3	99.3	99.3	99.3
60"		89.4	89.4	89.4	89.4
66"		81.2	81.2	81.2	81.2
72"		81.2	81.2	81.2	81.2
36"	90"	100.0	130.0	100.0	130.0
42"		100.0	119.2	100.0	119.2
48"		100.0	104.3	100.0	104.3
54"		92.7	92.7	92.7	92.7
60"		83.4	83.4	83.4	83.4
66"		75.8	75.8	75.8	75.8
72"		69.5	69.5	69.5	69.5
36"	96"	100.0	130.0	100.0	130.0
42"		100.0	111.7	100.0	111.7
48"		97.8	97.8	97.8	97.8
54"		86.9	86.9	86.9	86.9
60"		78.2	78.2	78.2	78.2
66"		71.1	71.1	71.1	71.1
72"		65.2	65.2	65.2	65.2
36"	102"	100.0	122.7	100.0	122.7
42"		100.0	105.1	100.0	105.1
48"		92.0	92.0	92.0	92.0
54"		81.8	81.8	81.8	81.8
60"		73.6	73.6	73.6	73.6
66"		66.9	66.9	66.9	66.9
72"		65.2	65.2	65.2	65.2
36"	108"	100.0	112.4	100.0	115.9
42"		96.4	96.4	99.3	99.3
48"		84.3	84.3	86.9	86.9
54"		75.0	75.0	77.2	77.2
60"		67.5	67.5	69.5	69.5
66"		66.9	66.9	66.9	66.9
72"		65.2	65.2	65.2	65.2
36"	114"	99.2	99.2	100.0	109.8
42"		85.0	85.0	94.1	94.1
48"		74.4	74.4	82.3	82.3
54"		66.1	66.1	73.2	73.2
60"		59.5	59.5	65.9	65.9
66"		59.5	59.5	65.9	65.9
72"		59.5	59.5	65.9	65.9

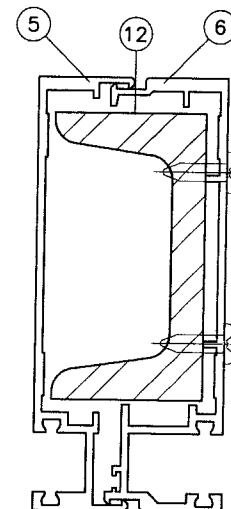
DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		STANDARD MULLION		HEAVY MULLION	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36"	120"	87.2	87.2	99.0	99.0
42"		74.8	74.8	84.8	84.8
48"		65.4	65.4	74.2	74.2
54"		58.2	58.2	66.0	66.0
36"	126"	75.4	75.4	85.5	85.5
42"		64.6	64.6	73.3	73.3
48"		56.5	56.5	64.1	64.1
54"		50.2	50.2	57.0	57.0
36"	132"	65.5	65.5	74.4	74.4
42"		56.2	56.2	63.7	63.7
48"		49.2	49.2	55.8	55.8
54"		43.0	43.0	48.8	48.8
36"	138"	57.4	57.4	65.1	65.1
42"		49.2	49.2	55.8	55.8
48"		43.0	43.0	48.8	48.8
54"		37.9	37.9	43.0	43.0
36"	144"	50.5	50.5	57.3	57.3
42"		43.3	43.3	49.1	49.1
48"		37.9	37.9	43.0	43.0
54"		37.9	37.9	43.0	43.0



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



STANDARD MULLION



HEAVY MULLION

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-02 (3 SEC. GUSTS).

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

DEC 26 2006

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0104-09
Expiration Date APRIL 11, 2012

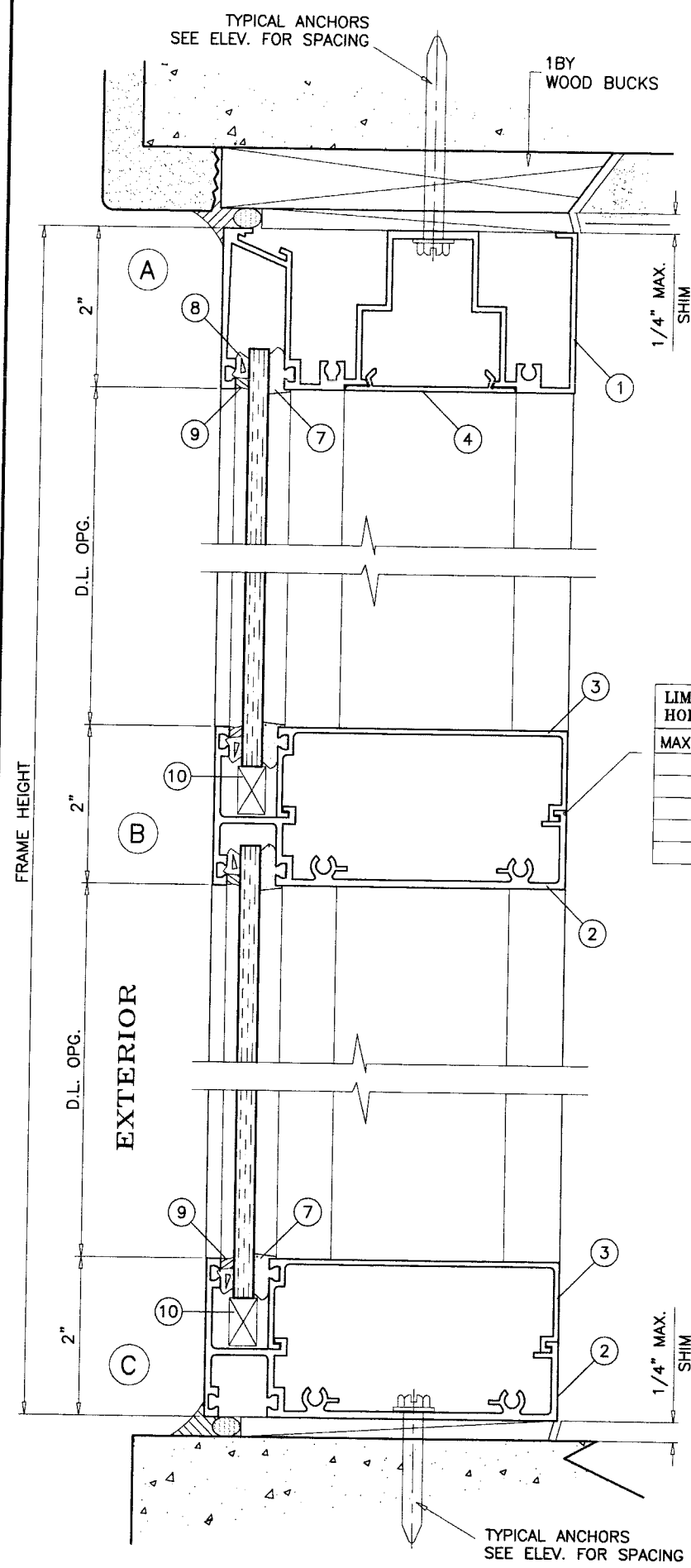
By: *Manuel Perez*
Miami Dade Product Control
Division

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

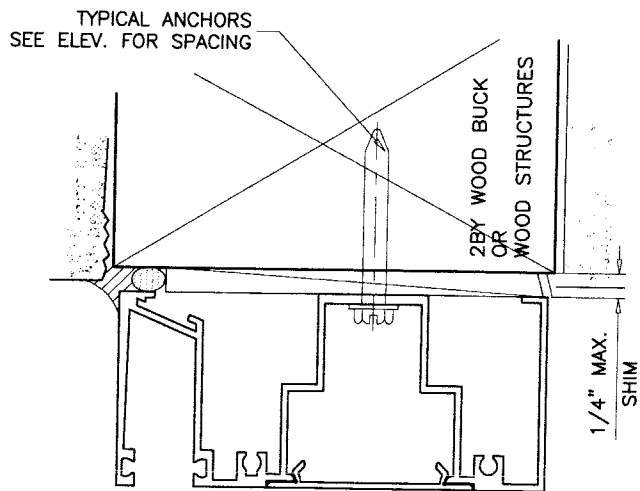
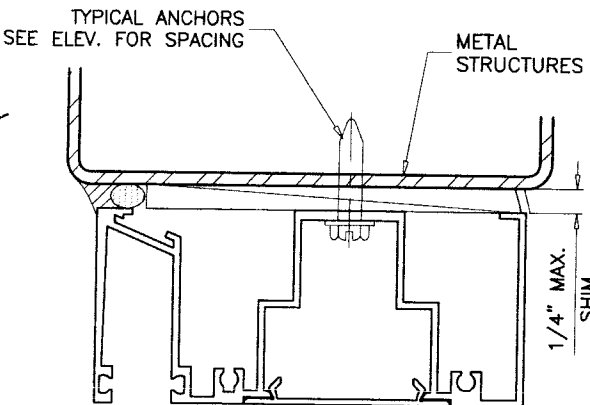
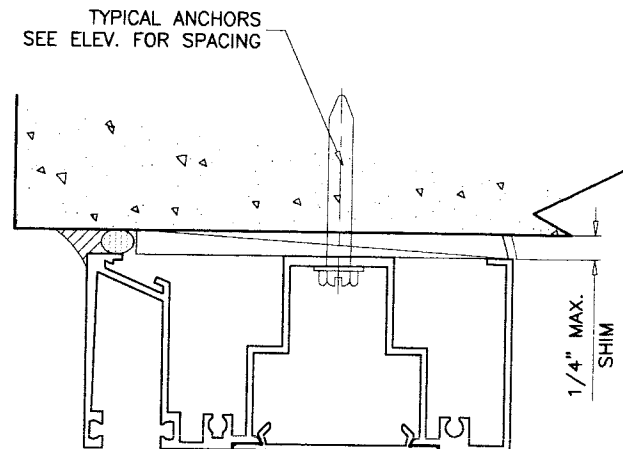
SERIES-2045 IG ALUM. WINDOW WALL SYSTEM (N.I.)
GLASSTECH ENGINEERING INC.
8321 N.W. 70TH STREET
MIAMI, FL. 33166
TEL. (305) 594-4321 FAX. (305) 599-2730

revisions:	no.	date	by	description
	B	12.14.06		UPDATED FOR 2004 FBC
date:	04-04-99			
scale:	-			
dr. by:	HAMID			
chk. by:				
drawing no.	99-11			
sheet	2 of 5			

STORE 99-11GTE



LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS	
MAX. HORIZ. SPAN	MAX. DESIGN LOADS
72"	42 PSF
66"	56 PSF
60"	79 PSF
54"	110 PSF
48"	130 PSF



WOOD BUCKS AND METAL STRUCTURES NOT BY GLASS TECH MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA TAPCONS
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY WOOD BUCKS INTO CONCRETE OR MASONRY WITH 1-1/4" MIN. EMBED INTO CONCRETE OR MASONRY
 DIRECTLY INTO CONCRETE OR MASONRY WITH 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

1/4" DIA. TEKS/DRIL-FLEX SELF DRILLING SCREWS
 INTO METAL STRUCTURES
 STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
 INTO CONCRETE AND MASONRY = 2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

SEALANTS:
 ALL FRAME CORNERS SEALED WITH JOINT SEALANT.

Engr: DR. HUMAYOON FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538
 DEC 26 2008

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 07-0104-09
 Expiration Date April 11, 2012
 By: [Signature]
 Miami Dade Product Control Division

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
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revisions:	no	date	by	description
	B	12.14.06		UPDATED FOR 2004 FBC

date: 04-04-99

scale: 1/2" = 1"

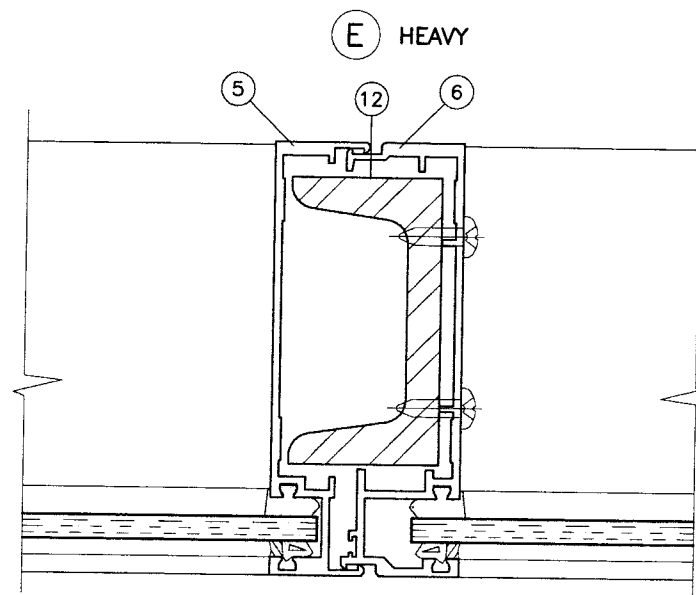
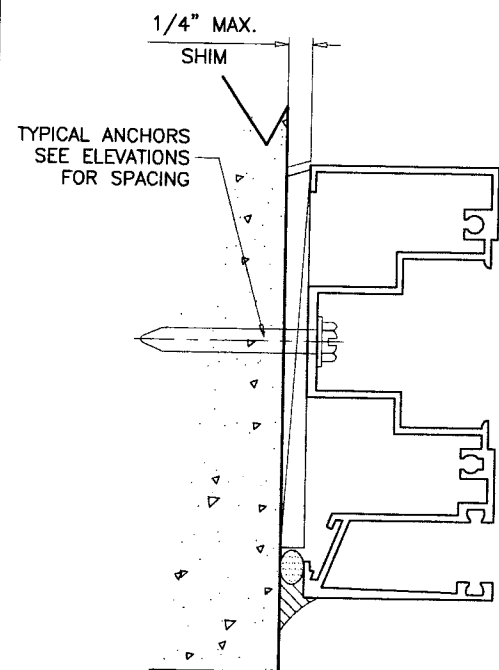
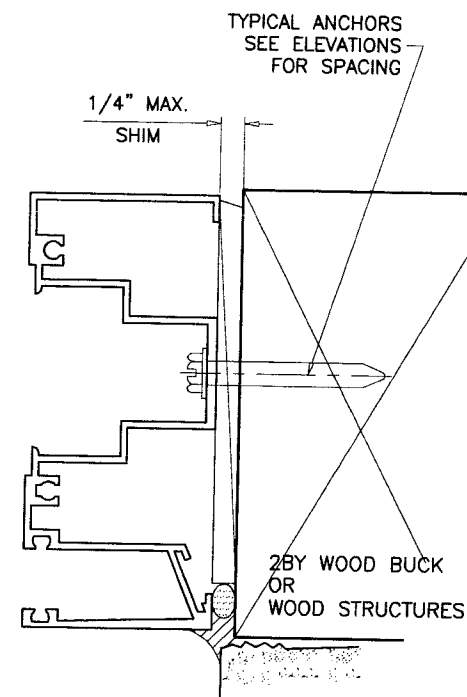
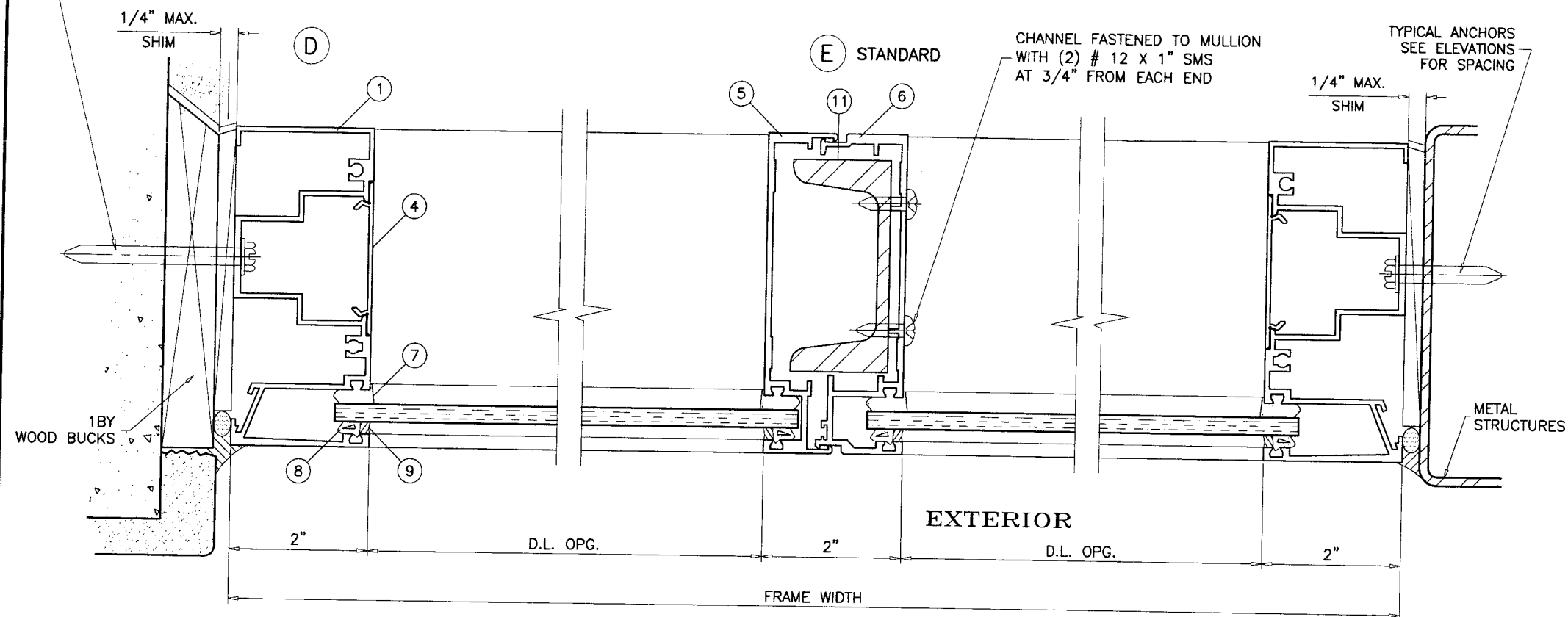
dr. by: HAMD

chk. by:

drawing no. 99-11

sheet 3 of 5

TYPICAL ANCHORS
SEE ELEVATIONS
FOR SPACING



Engr. DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

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Acceptance No. 07-0104-09
Expiration Date APRIL 11, 2012
By *Muhammad Serey*
Miami Dade Product Control
Division

a f c

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ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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SERIES-2045 IG ALUM. WINDOW WALL SYSTEM (N.I.)

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8321 N.W. 70TH STREET
MIAMI, FL. 33166

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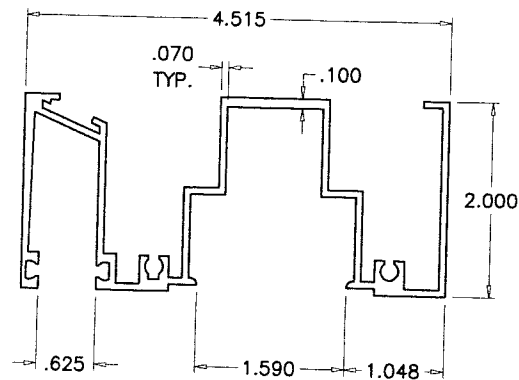
revisions:		no	date	by	description
		B	12.14.06		UPDATED FOR 2004 FBC

date: 04-04-99	scale: 1/2" = 1"	dr. by: HAMID	chk. by:
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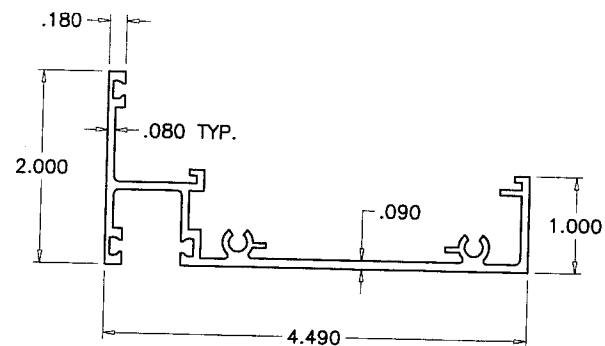
drawing no.
99-11

sheet 4 of 5

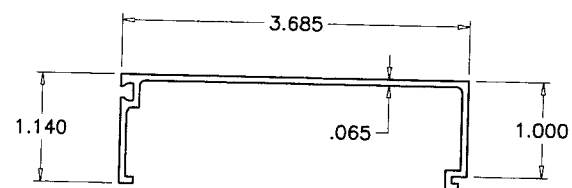
STORE 99-11GTE



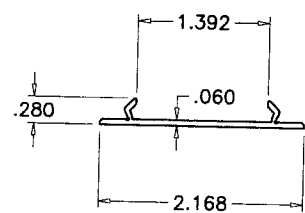
FRAME HEAD/JAMB # 367



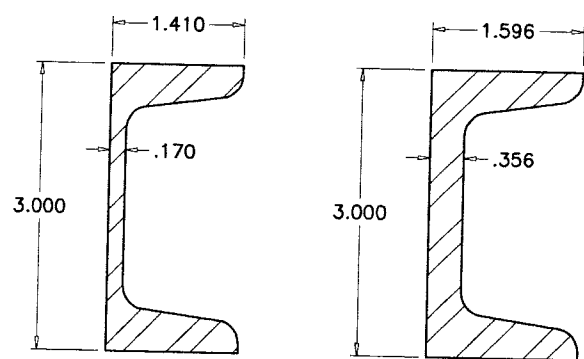
FRAME HORIZONTAL/SILL # 368



GLAZING STOP # 369



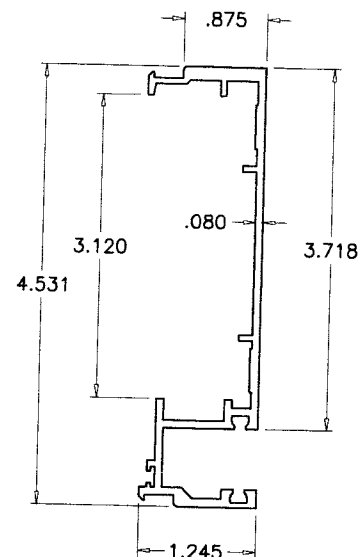
SNAP-IN COVER HEAD/JAMB # 370



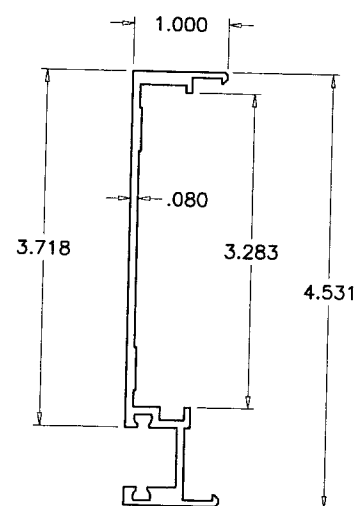
C 3X4.1

C 3X6

MULLION REINFORCING

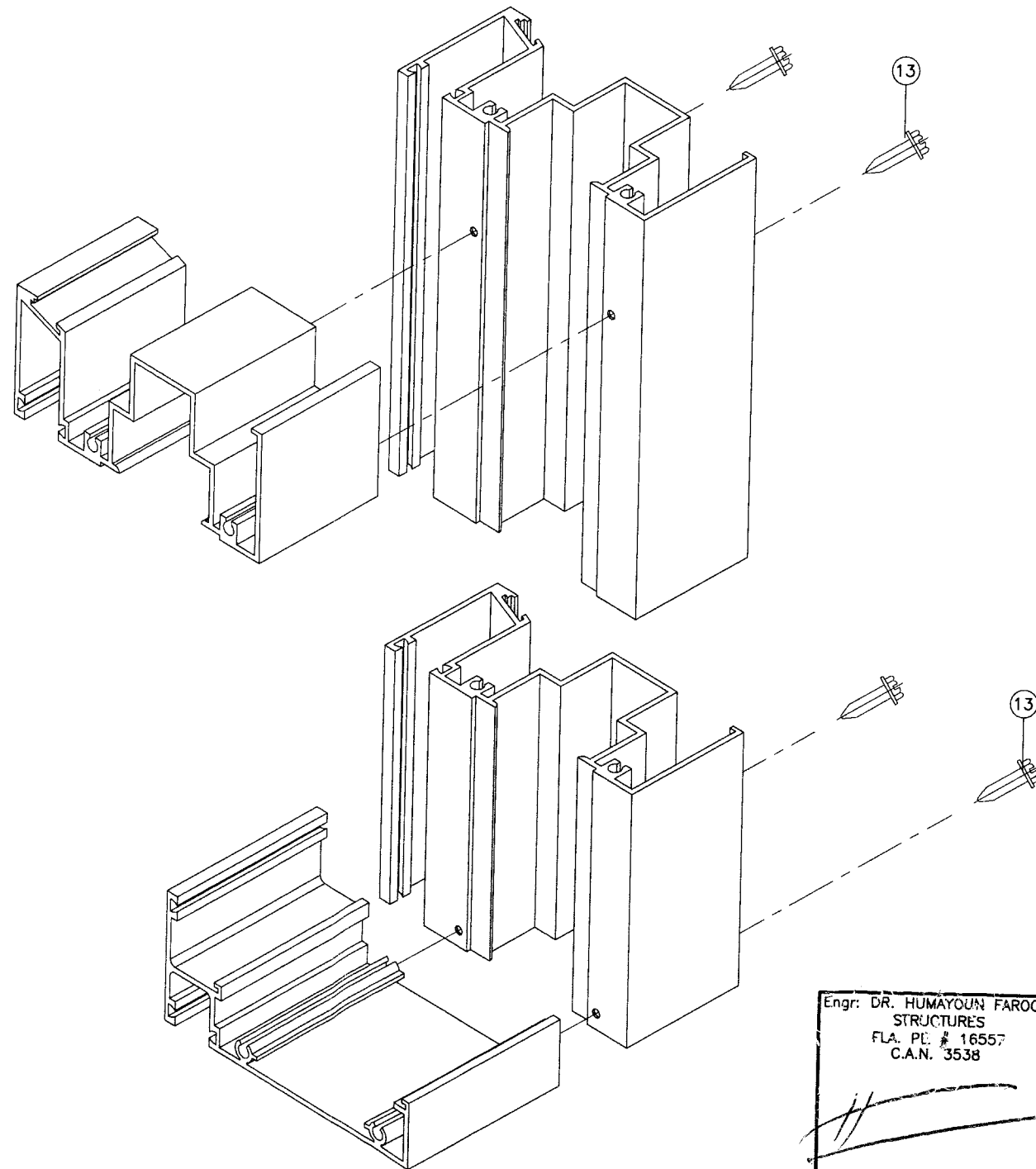


MALE MULLION # 366



FEMALE MULLION # 365

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	367	AS REQD.	FRAME HEAD/JAMB	6063-T6	-
2	368	AS REQD.	FRAME HORIZONTAL/SILL	6063-T6	-
3	369	AS REQD.	GLAZING STOP	6063-T6	-
4	370	AS REQD.	SNAP-IN COVER	6063-T6	-
5	365	AS REQD.	FEMALE MULLION	6063-T6	-
6	366	AS REQD.	MALE MULLION	6063-T6	-
7	TR-1892E	AS REQD.	INT. GLAZING GASKET	-	-
8	TR-427N	AS REQD.	EXT. WEDGE GASKET	NEOPRENE	-
9	995	-	SEALING COMPOUND	SILICONE	DOW CORNING
10	BN0812	AS REQD.	SETTING BLOCK (1/2" X 3/4" X 2" LONG)	-	-
11	C 3X4.1	1/MULLION	REINFORCING CHANNEL, FULL LENGTH	STEEL	-
12	C 3X6	1/MULLION	REINFORCING CHANNEL, FULL LENGTH	STEEL	-
13	#12 X 1-1/2" SMS	2/ CORNER	FRAME ASSEMBLY SCREWS	-	-



Engr. DR. HUMAYOON FAROOQ
STRUCTURES
FLA. P.E. # 16557
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0104-09
Expiration Date APRIL 11, 2012
By: *Manuel Perez*
Miami Date Product Control
Division

DEC 26 2006

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES-2045 IG ALUM. WINDOW WALL SYSTEM (N.I.)

GLASSTECH ENGINEERING INC.

8321 N.W. 70TH STREET
MIAMI, FL. 33166

TEL. (305) 594-4321 FAX. (305) 599-2730

revisions:	no	date	by	description
	B	12.14.06		UPDATED FOR 2004 FBC

date: 04-04-99	scale: 1/2" = 1"
dr. by: HAMID	chk. by:

drawing no.

99-11

sheet 5 of 5

STORE 99-11GTE